



RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/723,752B

DATE: 07/28/2003  
TIME: 09:47:07

Input Set : A:\P1093P1D1.txt  
Output Set: N:\CRF4\07282003\I723752B.raw

59 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:  
61 Gly Tyr Thr Phe Thr Asn Tyr Gly Met Asn  
62 1 5 10  
64 (2) INFORMATION FOR SEQ ID NO: 2:  
66 (i) SEQUENCE CHARACTERISTICS:  
67 (A) LENGTH: 17 amino acids  
68 (B) TYPE: Amino Acid  
69 (D) TOPOLOGY: Linear  
71 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:  
73 Trp Ile Asn Thr Tyr Thr Gly Glu Pro Thr Tyr Ala Ala Asp Phe  
74 1 5 10 15  
76 Lys Arg  
79 (2) INFORMATION FOR SEQ ID NO: 3:  
81 (i) SEQUENCE CHARACTERISTICS:  
82 (A) LENGTH: 14 amino acids  
83 (B) TYPE: Amino Acid  
84 (D) TOPOLOGY: Linear  
86 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:  
88 Tyr Pro His Tyr Tyr Gly Ser Ser His Trp Tyr Phe Asp Val  
89 1 5 10  
91 (2) INFORMATION FOR SEQ ID NO: 4:  
93 (i) SEQUENCE CHARACTERISTICS:  
94 (A) LENGTH: 11 amino acids  
95 (B) TYPE: Amino Acid  
96 (D) TOPOLOGY: Linear  
98 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:  
100 Ser Ala Ser Gln Asp Ile Ser Asn Tyr Leu Asn  
101 1 5 10  
103 (2) INFORMATION FOR SEQ ID NO: 5:  
105 (i) SEQUENCE CHARACTERISTICS:  
106 (A) LENGTH: 7 amino acids  
107 (B) TYPE: Amino Acid  
108 (D) TOPOLOGY: Linear  
110 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:  
112 Phe Thr Ser Ser Leu His Ser  
113 1 5  
115 (2) INFORMATION FOR SEQ ID NO: 6:  
117 (i) SEQUENCE CHARACTERISTICS:  
118 (A) LENGTH: 9 amino acids  
119 (B) TYPE: Amino Acid  
120 (D) TOPOLOGY: Linear  
122 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:  
124 Gln Gln Tyr Ser Thr Val Pro Trp Thr  
125 1 5  
127 (2) INFORMATION FOR SEQ ID NO: 7:  
129 (i) SEQUENCE CHARACTERISTICS:  
130 (A) LENGTH: 118 amino acids  
131 (B) TYPE: Amino Acid  
132 (D) TOPOLOGY: Linear

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/723,752B

DATE: 07/28/2003

TIME: 09:47:07

Input Set : A:\P1093P1D1.txt

Output Set: N:\CRF4\07282003\I723752B.raw

134 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:  
 136 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly  
 137 1 5 10 15  
 139 Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Tyr Thr Phe Thr  
 140 20 25 30  
 142 Asn Tyr Gly Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu  
 143 35 40 45  
 145 Glu Trp Val Gly Trp Ile Asn Thr Tyr Thr Gly Glu Pro Thr Tyr  
 146 50 55 60  
 148 Ala Ala Asp Phe Lys Arg Arg Phe Thr Phe Ser Leu Asp Thr Ser  
 149 65 70 75  
 151 Lys Ser Thr Ala Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp  
 152 80 85 90  
 154 Thr Ala Val Tyr Tyr Cys Ala Lys Tyr Pro His Tyr Tyr Gly Ser  
 155 95 100 105  
 157 Ser His Trp Tyr Phe Asp Val Trp Gly Gln Gly Thr Leu  
 158 110 115

160 (2) INFORMATION FOR SEQ ID NO: 8:

162 (i) SEQUENCE CHARACTERISTICS:  
 163 (A) LENGTH: 110 amino acids  
 164 (B) TYPE: Amino Acid  
 165 (D) TOPOLOGY: Linear

167 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:  
 169 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val  
 170 1 5 10 15  
 172 Gly Asp Arg Val Thr Ile Thr Cys Ser Ala Ser Gln Asp Ile Ser  
 173 20 25 30  
 175 Asn Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys  
 176 35 40 45  
 178 Val Leu Ile Tyr Phe Thr Ser Ser Leu His Ser Gly Val Pro Ser  
 179 50 55 60  
 181 Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile  
 182 65 70 75  
 184 Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln  
 185 80 85 90  
 187 Tyr Ser Thr Val Pro Trp Thr Phe Gly Gln Gly Thr Lys Val Glu  
 188 95 100 105  
 190 Ile Lys Arg Thr Val  
 191 110

193 (2) INFORMATION FOR SEQ ID NO: 9:

195 (i) SEQUENCE CHARACTERISTICS:  
 196 (A) LENGTH: 123 amino acids  
 197 (B) TYPE: Amino Acid  
 198 (D) TOPOLOGY: Linear

200 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:  
 202 Glu Ile Gln Leu Val Gln Ser Gly Pro Glu Leu Lys Gln Pro Gly  
 203 1 5 10 15  
 205 Glu Thr Val Arg Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr  
 206 20 25 30

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/723,752B

DATE: 07/28/2003

TIME: 09:47:07

Input Set : A:\P1093P1D1.txt

Output Set: N:\CRF4\07282003\I723752B.raw

208 Asn Tyr Gly Met Asn Trp Val Lys Gln Ala Pro Gly Lys Gly Leu  
 209 35 40 45  
 211 Lys Trp Met Gly Trp Ile Asn Thr Tyr Thr Gly Glu Pro Thr Tyr  
 212 50 55 60  
 214 Ala Ala Asp Phe Lys Arg Arg Phe Thr Phe Ser Leu Glu Thr Ser  
 215 65 70 75  
 217 Ala Ser Thr Ala Tyr Leu Gln Ile Ser Asn Leu Lys Asn Asp Asp  
 218 80 85 90  
 220 Thr Ala Thr Tyr Phe Cys Ala Lys Tyr Pro His Tyr Tyr Gly Ser  
 221 95 100 105  
 223 Ser His Trp Tyr Phe Asp Val Trp Gly Ala Gly Thr Thr Val Thr  
 224 110 115 120  
 226 Val Ser Ser

229 (2) INFORMATION FOR SEQ ID NO: 10:

231 (i) SEQUENCE CHARACTERISTICS:

232 (A) LENGTH: 108 amino acids  
 233 (B) TYPE: Amino Acid  
 234 (D) TOPOLOGY: Linear

236 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:

238 Asp Ile Gln Met Thr Gln Thr Thr Ser Ser Leu Ser Ala Ser Leu  
 239 1 5 10 15  
 241 Gly Asp Arg Val Ile Ile Ser Cys Ser Ala Ser Gln Asp Ile Ser  
 242 20 25 30  
 244 Asn Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Asp Gly Thr Val Lys  
 245 35 40 45  
 247 Val Leu Ile Tyr Phe Thr Ser Ser Leu His Ser Gly Val Pro Ser  
 248 50 55 60  
 250 Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Tyr Ser Leu Thr Ile  
 251 65 70 75  
 253 Ser Asn Leu Glu Pro Glu Asp Ile Ala Thr Tyr Tyr Cys Gln Gln  
 254 80 85 90  
 256 Tyr Ser Thr Val Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu  
 257 95 100 105

259 Ile Lys Arg

262 (2) INFORMATION FOR SEQ ID NO: 11:

264 (i) SEQUENCE CHARACTERISTICS:

265 (A) LENGTH: 113 amino acids  
 266 (B) TYPE: Amino Acid  
 267 (D) TOPOLOGY: Linear

269 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:

271 Glu Val Gln Leu Val Glu Ser Gly Gly Leu Val Gln Pro Gly  
 272 1 5 10 15  
 274 Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser  
 275 20 25 30  
 277 Ser Tyr Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu  
 278 35 40 45  
 280 Glu Trp Val Ser Val Ile Ser Gly Asp Gly Gly Ser Thr Tyr Tyr  
 281 50 55 60  
 283 Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/723,752B

DATE: 07/28/2003

TIME: 09:47:07

Input Set : A:\P1093P1D1.txt

Output Set: N:\CRF4\07282003\I723752B.raw

284                       65                       70                       75  
 286 Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp  
 287                       80                       85                       90  
 289 Thr Ala Val Tyr Tyr Cys Ala Arg Gly Phe Asp Tyr Trp Gly Gln  
 290                       95                       100                       105  
 292 Gly Thr Leu Val Thr Val Ser Ser  
 293                       110  
 295 (2) INFORMATION FOR SEQ ID NO: 12:  
 297        (i) SEQUENCE CHARACTERISTICS:  
 298                (A) LENGTH: 108 amino acids  
 299                (B) TYPE: Amino Acid  
 300                (D) TOPOLOGY: Linear

302        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:  
 304 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val  
 305        1                       5                       10                       15  
 307 Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser  
 308                20                       25                       30  
 310 Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys  
 311                35                       40                       45  
 313 Leu Leu Ile Tyr Ala Ala Ser Ser Leu Glu Ser Gly Val Pro Ser  
 314                50                       55                       60  
 316 Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile  
 317                65                       70                       75  
 319 Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln  
 320                80                       85                       90  
 322 Tyr Asn Ser Leu Pro Trp Thr Phe Gly Gln Gly Thr Lys Val Glu  
 323                95                       100                       105  
 325 Ile Lys Arg

328 (2) INFORMATION FOR SEQ ID NO: 13:  
 330        (i) SEQUENCE CHARACTERISTICS:  
 331                (A) LENGTH: 107 amino acids  
 332                (B) TYPE: Amino Acid  
 333                (D) TOPOLOGY: Linear  
 335        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:  
 337 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val  
 338        1                       5                       10                       15  
 340 Gly Asp Arg Val Thr Ile Thr Cys Ser Ala Ser Gln Asp Ile Ser  
 341                20                       25                       30  
 343 Asn Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys  
 344                35                       40                       45  
 346 Leu Leu Ile Tyr Phe Thr Ser Ser Leu His Ser Gly Val Pro Ser  
 347                50                       55                       60  
 349 Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile  
 350                65                       70                       75  
 352 Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln  
 353                80                       85                       90  
 355 Tyr Ser Thr Val Pro Trp Thr Phe Gly Gln Gly Thr Lys Val Glu  
 356                95                       100                       105  
 358 Ile Lys